WEST Search History

DATE: Thursday, February 20, 2003

Set Name side by side	Query	Hit Count	Set Name result set
DB = USPT, PGF	PB,JPAB,EPAB,DWPI; PLUR=YES; OP=AD,	I	
L10	5597719.pn.	2	L10
L9	5869308.pn.	2	L9
L8	5656612.pn.	2	L8
L7	L6 and angiogene\$	0	L7
L6	raf-caax	4	L6
L5	5952229.pn.	2	L5
L4	5952229	11	L4
L3	L1 with angiogene\$	23	L3
L2	L1 near10 angiogene\$	8	L2
L1	raf	2315	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 23 returned.

☐ 1. Document ID: US 20030017573 A1

L3: Entry 1 of 23

File: PGPB

Jan 23, 2003

RULE-47

PGPUB-DOCUMENT-NUMBER: 20030017573

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017573 A1

TITLE: Polymerase kappa compositions and methods thereof

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME CITY Friedberg, Errol C.

Dallas TXUS Branford CTUS

Gerlach, Valerie Feaver, William J.

Branford

CT

STATE

COUNTRY

US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

2. Document ID: US 20030013674 A1

L3: Entry 2 of 23

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013674

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030013674 A1

TITLE: Use of targeted cross-linked nanoparticles for in vivo gene delivery

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Bednarski, Mark D.

Los Altos

CA

Guccione, Samira

Hillsborough

CA

US US

COUNTRY

Li, King Chuen

Bethesda

MD

US

US-CL-CURRENT: 514/44; 424/499

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

3. Document ID: US 20030004351 A1

L3: Entry 3 of 23

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004351

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030004351 A1

TITLE: Substituted oxindole derivatives as protein tyrosine kinase and as protein

serine/threonine kinase inhibitors

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Davis, Stephen Thomas	Durham	NC	US	
Dickerson, Scott Howard	Chapel Hill	NC	US	
Frye, Stephen Vernon	Durham	NC	US	
Harris, Philip Anthony	Raleigh	NC	US	
Hunter, Robert Neil III	Raleigh	NC	US	
Kuyper, Lee Frederick	Durham	NC	US	
Lackey, Karen Elizabeth	Hillsborough	NC	US	
Luzzio, Michael Joseph	Groton	CT	US	
Veal, James Marvin	Apex	NC	US	
Walker, Duncan Herrick	Summit	NJ	US	

US-CL-CURRENT: 546/200; 548/361.1, 548/432, 548/486

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw, Desc Image

L3: Entry 4 of 23

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004350

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030004350 A1

TITLE: AZAINDOLE DERIVATIVES, PROCESS FOR THEIR PREPARATION, AND THEIR USE AS

ANTITUMOR AGENTS

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Longo, Antonio	Milan		IT	
Brasca, Maria Gabriella	Cusago		IT	
Orsini, Paolo	Gallarate		IT	
Traquandi, Gabriella	Milan		IT	
Pittala, Valeria	Catania		IT	
Vulpetti, Anna	Brugherio		IT	
Varasi, Mario	Milan		IT	
Pevarello, Paolo	Pavia		IT	

US-CL-CURRENT: 546/113

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw Desc Image

L3: Entry 5 of 23

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020192665

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020192665 A1

TITLE: Compositions and methods for the therapeutic use of an atonal-associated

sequence for a gastrointestinal condition

PUBLICATION-DATE: December 19, 2002

INVENTOR - INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Zoghbi, Huda Y.

Houston

TX

US

Yang, Qi

The Woodlands

ΤX

US

US-CL-CURRENT: 435/6; 435/366, 435/7.21

Full Title Citation Front Review Classification Date Reference Sequences Attachments

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(iii) 6. Document ID: US 20020187105 A1

L3: Entry 6 of 23

File: PGPB

Dec 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020187105

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020187105 A1

TITLE: Polymer combinations that result in stabilized aerosols for gene delivery to

the lungs

PUBLICATION-DATE: December 12, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Zou, Yiyu

lou, ilyu

Bronx

NY

US

Perez-Soler, Roman

New York

NY

US

US-CL-CURRENT: 424/45; 424/78.38, 514/2

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

7. Document ID: US 20020156081 A1

L3: Entry 7 of 23

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156081

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020156081 A1

TITLE: Pyrazolopyrimidines as therapeutic agents

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47
Hirst. Gavin C. Marlborough MA US

Hirst, Gavin C. Marlborough Westborough MA US Rafferty, Paul Newton MA DE Ritter, Kurt MA GB Framingham Calderwood, David US Wishart, Neil Jefferson Westborough CA Arnold, Lee D. US Newton Friedman, Michael M.

US-CL-CURRENT: 514/247; 514/249, 544/237, 544/262

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image

3. Document ID: US 20020151060 A1

L3: Entry 8 of 23 File: PGPB Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151060

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151060 A1

TITLE: PEI: DNA vector formulations for in vitro and in vivo gene delivery

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Cristiano, Richard J. Pearland TX US

Yamashita, Motoyuki Kochi City JP

US-CL-CURRENT: 435/455; 424/486, 514/44

Full Title Citation Front Review Classification Date Reference Sequences Attachments IAMC Draw Desc Image

☐ 9. Document ID: US 20020143062 A1

L3: Entry 9 of 23 File: PGPB Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143062

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020143062 A1

TITLE: Method to incorporate N-(4-hydroxyphenyl) retinamide in liposomes

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Lopez-Berestein, Gabriel Bellaire TX US
Tari, Ana M. Houston TX US
Lim, Soo-Jeong Seoul KR

US-CL-CURRENT: 514/613; 424/155.1, 424/450

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Drava Desc Image

☐ 10. Document ID: US 20020137731 A1

L3: Entry 10 of 23

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137731

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137731 A1

TITLE: Combination of radiation and vitamin D3 analogs for the treatment of cancer

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Gewirtz, David A.

Richmond

US

VA

US-CL-CURRENT: 514/167; 600/1

Full Title Citation Front Review Classification Date Reference Sequences Attachments

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☐ 11. Document ID: US 20020106348 A1

L3: Entry 11 of 23

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106348

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020106348 A1

TITLE: Cancer therapeutics involving the administration of 2-methoxyestradiol and an agent that increases intracellular superoxide anion

PUBLICATION-DATE: August 8, 2002

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Huang, Peng Houston TX US Plunkett, William K. Houston TX US Feng, Li Sugar Land TX US

US-CL-CURRENT: 424/85.1; 514/182, 514/34, 514/72, 514/8

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Draw Desc Image

12. Document ID: US 20020028815 A1

L3: Entry 12 of 23

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028815

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028815 A1

TITLE: Novel multicyclic compounds and the use thereof

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

COUNTRY RULE-47 NAME CITY STATE US Ator, Mark A. Paoli PΑ US PA Bihovsky, Ron Wynnewood PΑ US Wynnewood Chatterjee, Sankar PA US Dunn, Derek Thorndale Chester Springs PA US Hudkins, Robert L.

US-CL-CURRENT: 514/249; 514/290, 514/373, 514/411, 544/234, 546/79, 548/207, 548/427

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

☐ 13. Document ID: US 6503914 B1 Jan 7, 2003 File: USPT L3: Entry 13 of 23 US-PAT-NO: 6503914 DOCUMENT-IDENTIFIER: US 6503914 B1 TITLE: Thienopyrimidine-based inhibitors of the Src family Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Draw Desc Image 14. Document ID: US 6486322 B1 File: USPT Nov 26, 2002 L3: Entry 14 of 23 US-PAT-NO: 6486322 DOCUMENT-IDENTIFIER: US 6486322 B1 TITLE: Azaindole derivatives, process for their preparation, and their use as antitumor agents Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image 15. Document ID: US 6455559 B1 Sep 24, 2002 File: USPT L3: Entry 15 of 23 US-PAT-NO: 6455559 DOCUMENT-IDENTIFIER: US 6455559 B1 TITLE: Phenylacetamido-pyrazole derivatives, process for their preparation and their use as antitumor agents KWIC Draw Desc Image Full Title Citation Front Review Classification Date Reference Sequences Attachments ☐ 16. Document ID: US 6455525 B1 Sep 24, 2002 File: USPT L3: Entry 16 of 23 US-PAT-NO: 6455525 DOCUMENT-IDENTIFIER: US 6455525 B1 TITLE: Heterocyclic substituted pyrazolones Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image ☐ 17. Document ID: US 6414013 B1 Jul 2, 2002 File: USPT L3: Entry 17 of 23

US-PAT-NO: 6414013

DOCUMENT-IDENTIFIER: US 6414013 B1

TITLE: Thiophene compounds, process for preparing the same, and pharmaceutical

compositions containing the same background of the invention

	tachments KMMC Draw Desc Image
18. Document ID: US 6387919 B1 L3: Entry 18 of 23 File: USPT	May 14, 2002
S-PAT-NO: 6387919 OCUMENT-IDENTIFIER: US 6387919 B1	
ITLE: Substituted oxindole derivatives as protein erine/threonine kinase inhibitors	tyrosine kinase and as protein
Full Title Citation Front Review Classification Date Reference Sequences A	ttachments KMC Draw Desc Image
19. Document ID: US 6369086 B1	Apr 9, 2002
L3: Entry 19 of 23 File: USPT	Apr 37 2002
JS-PAT-NO: 6369086 DOCUMENT-IDENTIFIER: US 6369086 B1	
CITLE: Substituted oxidole derivatives as protein serine/threonine kinase inhibitors	tyrosine and as protein
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Full Title Citation Front Review Classification Date Reference Sequences A	Attachments KWWC Draww Desc Image
Full Title Citation Front Review Classification Date Reference Sequences A 20. Document ID: US 6335342 B1 L3: Entry 20 of 23 File: USPT IS-PAT-NO: 6335342	
Full Title Citation Front Review Classification Date Reference Sequences A 20. Document ID: US 6335342 B1 L3: Entry 20 of 23 File: USPT US-PAT-NO: 6335342 DOCUMENT-IDENTIFIER: US 6335342 B1 FITTLE: Azaindole derivatives, process for their p	Jan 1, 2002
Full Title Citation Front Review Classification Date Reference Sequences A	Jan 1, 2002 reparation, and their use as
Title Citation Front Review Classification Date Reference Sequences A 20. Document ID: US 6335342 B1 L3: Entry 20 of 23 File: USPT US-PAT-NO: 6335342 DOCUMENT-IDENTIFIER: US 6335342 B1 TITLE: Azaindole derivatives, process for their pantitumor agents	Jan 1, 2002 reparation, and their use as
Title Citation Front Review Classification Date Reference Sequences A 20. Document ID: US 6335342 B1 L3: Entry 20 of 23 File: USPT US-PAT-NO: 6335342 DOCUMENT-IDENTIFIER: US 6335342 B1 TITLE: Azaindole derivatives, process for their pantitumor agents Full Title Citation Front Review Classification Date Reference Sequences	Jan 1, 2002 reparation, and their use as Attachments

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L3: Entry 21 of 23

File: USPT

Jul 31, 2001

US-PAT-NO: 6268391

DOCUMENT-IDENTIFIER: US 6268391 B1

TITLE: Benzylidene-1,3-dihydro-indol-2-one derivatives a receptor tyrosine kinase

inhibitors, particularly of Raf kinases

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWWC Draw Desc Image

22. Document ID: US 6410518 B1

L3: Entry 22 of 23

File: DWPI

Jun 25, 2002

DERWENT-ACC-NO: 2002-597918

DERWENT-WEEK: 200264

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TITLE: Treating cancer, angiogenesis or neovascularization by administering antisense

oligonucleotides targeted to human raf sequences

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

23. Document ID: KR 2002032553 A WO 200112210 A1 AU 200067633 A EP 1210099 A1 NO 200200718 A SK 200200214 A3 CZ 200200449 A3

L3: Entry 23 of 23

File: DWPI

May 3, 2002

DERWENT-ACC-NO: 2001-202826

DERWENT-WEEK: 200270

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TITLE: Composition for modulating <u>angiogenesis</u> and treating rheumatoid arthritis and restenosis comprises Raf protein or viral or non-viral gene transfer vector

containing nucleic acid encoding for Raf or Ras protein

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KVMC Draw Desc Image

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BENZYLIDENE-1,3-DIHYDRO-INDOL-2-ONE **DERIVATIVES A RECEPTOR TYROSINE** KINASE INHIBITORS, PARTICULARLY OF RAF KINASES

FIELD OF THE INVENTION

The present invention provides novel compounds, novel compositions, methods of their use and methods of their manufacture, such compounds generally pharmacologically useful as agents in those disease states alleviated by the alteration of mitogen activated signalling pathways in general, and in particular the inhibition or antagonism of protein kinases, which pathologically involve aberrant cellular proliferation, such disease states including tumor growth. The aforementioned pharmacologic activities are useful in the treatment of mammals. In particular, the invention relates to benzylidene oxindole derivatives which exhibit cRaf-1 kinase inhibition for the treatment of disorders related to cell proliferation.

More specifically, the compounds of the present invention can be used in the treatment of certain forms of cancer, can be used to provide additive or synergistic effects with certain existing cancer chemotherapies, and/or used to restore effectiveness of certain existing cancer chemotherapies and radiation. At the present time, there is a need in the areas of diseases characterized by cell proliferation for such therapeutic agents.

BACKGROUND OF THE INVENTION

Cancer results from the deregulation of the normal processes that control cell division, differentiation and apoptotic cell death. Protein kinases play a critical role in this regulatory process. A partial non-limiting list of such kinases includes ab1, ATK, bcr-ab1, Blk, Brk, Btk, c-kit, c-met, c-src, CDK1, CDK2, CDK4, CDK6, cRaf1, CSF1R, CSK, EGFR, ErbB2, ErbB3, ErbB4, ERK, Fak, fes, FGFR1, FGFR2, FGFR3, FGFR4, FGFR5, Fgr, FLK4, flt-1, Fps, Frk, Fyn, Hck, IGF-1R, INS-R, Jak, KDR, Lck, Lyn, MEK, p38, PDGFR, PIK, PKC, PYK2, ros, tie1, tie2, TRK, Yes and Zap70. In mammalian biology, such protein kinases comprise mitogen activated protein kinase (MAPK) signalling pathways. MAPK signalling pathways are inappropriately activated by a variety of common disease-associated mechagrowth factor receptors (Magnuson et al, Seminars in Cancer Biology; 1994 (5), 247-252). Therefore the inhibition of protein kinases is an object of the present invention.

Additionally, protein kinases have been implicated as targets in central nervous system disorders (such as 50 Alzheimer's), inflammatory disorders (such as psoriasis), bone diseases (such as osteoporosis), atheroscleroses, restenosis, thrombosis, metabolic disorders (such as diabetes) and infectious diseases (such as viral and fungal

One of the most commonly studied pathways involving kinase regulation is cellular signalling from receptors at the cell surface to the nucleus (Crews and Erikson, 1993). One example of this pathway includes a cascade of kinases in Kinases (such as EGF-R, PDGF-R, VEGF-R, IGF1-R, the Insulin receptor), deliver signals through phosphorylation to other kinases such as Src Tyrosine kinase, and the Raf, Mek and Erk serine/threonine kinase families (Crews and represented by several family members (Pelech and Sanghera, 1992) which play related, but functionally distinct

roles. The loss of regulation of the growth factor signalling pathway is a frequent occurrence in cancer as well as other disease states.

The signals mediated by kinases have also been shown to 5 control growth, death and differentiation in the cell by regulating the processes of the cell cycle (Massague and Roberts, 1995). Progression through the eukaryotic cell cycle is controlled by a family of kinases called cyclin dependent kinases (CDKs) (Myerson et al., 1992). The regulation of CDK activation is complex, but requires the association of the CDK with a member of the cyclin family of regulatory subunits (Draetta, 1993; Murray and Kirschner, 1989; Solomon et al., 1992). A further level of regulation occurs through both activating and inactivating phosphorylations of the CDK subunit (Draetta, 1993; Ducommun et al., 1991; Gautier et al., 1989; Gould and Nurse, 1989; Krek and Nigg, 1991; Murray and Kirschner, 1989; Solomon et al., 1992; Solomon et al., 1990). The coordinate activation and inactivation of different cyclin/ CDK complexes is necessary for normal progression through the cell cycle (Pines, 1993; Sherr, 1993). Both the critical G1-S and G2-M transitions are controlled by the activation of different cyclin/CDK activities. In G1, both cyclin D/CDK4 and cyclin E/CDK2 are thought to mediate the onset of S-phase (Matsushime et al., 1994; Ohtsubo and Roberts, 1993; Quelle et al., 1993; Resnitzky et al., 1994). Progression through S-phase requires the activity of cyclin A/CDK2 (Girard et al., 1991; Pagano et al., 1992; Rosenblatt et al., 1992; Walker and Maller, 1991; Zindy et al., 1992) whereas the activation of cyclin A/cdc2 (CDK1) and cyclin B/cdc2 are required for the onset of metaphase (Draetta, 1993; Girard et al., 1991; Murray and Kirschner, 1989; Pagano et al., 1992; Rosenblatt et al., 1992; Solomon et al., 1992; Walker and Maller, 1991; Zindy et al., 1992). It 35 is not surprising, therefore, that the loss of control of CDK regulation is a frequent event in hyperproliferative diseases and cancer. (Hunter and Pines, 1994; Lees, 1995; Pines, 1992)

The kinase cRaf1 regulates cellular proliferation in two ways. The enzyme positively regulates cell division through the Raf/MEK/ERK protein kinase cascade. This activation is the result of cRaf1 catalyzed phosphorylation of the protein kinase, MEK1. MEK1 phosphorylates and activates the protein kinase ERK. ERK phosphorylates and regulates nisms such as mutation of ras genes and deregulation of 45 transcription factors required for cell division (Avruch et al, TIBS: 1994 (19) 279-283). cRaf1 negatively regulates cell death by modulation of the activity of Bcl-2, a critical regulator of apoptosis. This regulation involves direct phosphorylation of Bcl-2 family members (Gajewski and Thompson, Cell: 1996 (87) 619-628). Both of these aspects of cRaf1 mediated regulation of cellular proliferation require the kinase activity of cRaf1.

cRaf1 is deregulated by events that are common in human cancer. For example ras genes are mutated with the following frequencies in the following representative primary human tumors: lung (adenocarcinoma), 30%; colon (adenocarcinoma), 50%; pancreatic carcinoma, 90%; seminoma, 40%; thyroid, 50% (McCormick, Ras oncogenes in Oncogenes and the molecular origins of cancer: 1989, which members of the Growth Factor receptor Tyrosine 60 125-146). cRaf1 is also activated by deregulation of tyrosine kinases including, cSrc, ErbB2, EGFR, and bcr/abl. These events are associated with breast, colon and lung carcinomas and chronic myelogenous leukemia (Fearon, Genetic lesions in human cancer, in Molecular oncology; Erikson, 1993; Ihle et al., 1994). Each of these kinases is 65 1996, 143-178). In addition, Raf anti-sense literature teaches that the reduction of Raf protein levels correlates with a reduction in tumor growth rate in in vivo tumor

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L3: Entry 21 of 23

File: USPT

Jul 31, 2001

DOCUMENT-IDENTIFIER: US 6268391 B1

TITLE: Benzylidene-1,3-dihydro-indol-2-one derivatives a receptor tyrosine kinase inhibitors, particularly of Raf kinases

Brief Summary Text (11):

Inhibitors of kinases involved in mediating or maintaining these disease states represent novel therapies for these disorders. Examples of such kinases include, but are not limited to: (1) inhibition of Src (Brickell, 1992; Courtneidge, 1994), raf (Powis, 1994) and the cyclin-dependent kinases (CDKs) 1, 2 and 4 in cancer (Hunter and Pines, 1994; Lees, 1995; Pines, 1992), (2) inhibition of CDK2 or PDGF-R kinase in restenosis (Buchdunger et al., 1995), (3) inhibition of CDK5 and GSK3 kinases in Alzheimers (Aplin et al., 1996; Hosoi et al., 1995), (4) inhibition of c-Src kinase in osteoporosis (Tanaka et al., 1996), (5) inhibition of GSK-3 kinase in type-2 diabetes (Borthwick et al., 1995); (6) inhibition of the p38 kinase in inflammation (Badger et al., 1996); (7) inhibition of VEGF-R 1-3 and TIE-1 and -2 kinases in angiogenesis (Shawver et al., 1997); (8) inhibition of UL97 kinase in viral infections (He et al., 1997); (9) inhibition of CSF-1R kinase in bone and hematopoetic diseases (Myers et al., 1997), and (10) inhibition of Lck kinase in autoimmune diseases and transplant rejection (Myers et al., 1997)